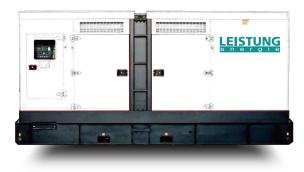


# Model: DE605D5

**Powered by DEUTZ** 





## Generator Specification

Service	PRP(1)	ESP(2)
Power (kVA)	550	605
Power (kW)	440	484
Rated speed ( r.p.m)	150	
Standard voltage (V)	400/2	30V
Rated at power factor(cos phi)	0.8	



AGG Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety.
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601 : 2010

#### (1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

#### (2) ESP (Standby Power):

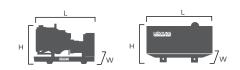
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

ES	P	PRF		Standby
KVA	ĸw	KVA	KW	Amps
605	484	550	440	841.7
605	484	550	440	873.3
605	484	550	440	919.2
	KVA 605 605	605     484       605     484	KVA         KW         KVA           605         484         550           605         484         550	KVA         KW         KVA         KW           605         484         550         440           605         484         550         440

Performance Data			
Model		DE605D5	
Engine brand		Deutz	
Engine model		BF8M1015CP-LA G4	
Speed control type		ECU	
Phase		3	
Control system		Digital	
Starter motor voltage		12/24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	-	
Fuel Consumption (L/H)	100% prime power	-	
	75% prime power	-	
	50% prime power	-	

#### Standard reference Conditions

Note: Standard reference condition 25°C[77°F] air inlet temp, 100m[328ft] A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2



#### **Dimension and Weight** Dimension Open Silent Length (L) 3040mm 4715mm Width (W) 1555mm 1650mm Height (H) 2230mm 2535mm Net Weight 3760 KG 4200 KG Fuel Tank (L) -

Note: This parameters allows for some acceptable deviations.

# Engine Specification: BF8M1015CP-LA G4

Basic technical data			
No. of cylinders	8		
Cylinder arrangement	V-from 90° angle		
Cycle	4 stroke		
Cylinder type	One-cylinder-one-head		
Displacement	15.874 L		
Bore	132 mm		
Stroke	145 mm		
Compression ratio	16.5:1		
Mean effective pressure	27.2bar		
Max.exhaust gas temperature	630 ℃		
Charge air temperature	219 ℃		
Exhaust emission standard	2045kg/h		

Fuel system	
Cylinder ignition sequence	1-8-4-5-7-3-6-2
Idle speed	650 rpm
Low-pressure pump oil	
load capacity	190L/h
Fuel filter element type	Disposable filter
No. of the fuel filter element	2

Lubrication system	
Min. oil pressure at 1500rpm	
(oil temperature 90 ℃)	≥ 3bar
Min. oil pressure at 600rpm	
(oil temperature 90 ℃)	> 1bar
Oil pan	Flywheel side

Cooling system		
Water-pump flow	347 L/min	
Water-pump pressure	1.25bar	
Coolant capacity(engine)	21L	
Heat carry off by coolant	237KW	
In&outlet coolant size	70mm	
Max.allowable operating temperate	ure 103 °C	
Fan	Exhaust type	
Fan connection	Gear drive+coupler	
Fan diameter	980mm	
Air volume of fan	6.2m³/s	
Fan power consumption	≤ 14.1KW	
Fan transmission ratio	0.96	

Engine Data	
Dry weight	1060 kg
No. of flywheel teeth	167
Engine support	Rigid
Battery voltage	24V
Starter rated power	9 KW
Generator capacity	55A

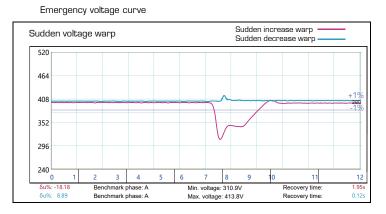
Cold starting systems	
Lowest ambient temperature of	
cold starting without assistant	
(standard configuration)	-17 ℃
Lowest ambient temperature of cold	
starting with flame preheat plug	-32 ℃



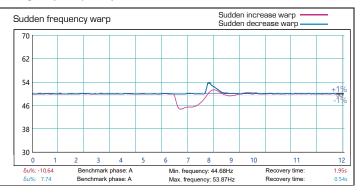
# Alternator Specification

Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standar	d) Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc





## Emergency frequency curve



# Options

Engine	Alternator	Generator Sets	Fuel System
<ul> <li>Water Jacket Pre-heater</li> <li>Fuel heater</li> </ul>	<ul> <li>Winding Temp measuring Instrument</li> <li>Alternator Pre-heater</li> <li>PMG</li> <li>Anti-damp and anti-corrosion treatment</li> <li>Anti-condensation heater</li> <li>Winding and bearing RTD</li> </ul>	<ul> <li>Tools with the machine</li> <li>Extended range fuel tank</li> <li>Bunded fuel tank</li> </ul>	<ul> <li>Low fuel level alarm</li> <li>Automatic fuel feeding system</li> <li>Fuel T-valves</li> </ul>
Canopy	Lub oil system	Cooling System	Control Panel
<ul><li>Rental type Canopy</li><li>Trailer</li></ul>	<ul><li>Oil Pre-heater</li><li>Oil temp sensor</li></ul>	<ul> <li>Front heat protection</li> </ul>	<ul> <li>Remote control panel</li> <li>ATS</li> <li>Synchronizing controller</li> <li>Adjustable earth leakage relay</li> </ul>



## Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

#### Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit
- Comprehensive diagnostic message
- Automatic or manual start/stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements ( 50HZ/60HZ)
- Generator measurements ( 50HZ/60HZ)
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
  - Over-/under voltage
  - -Over-/under frequency
  - -Current/voltage asymmetry
- -Over current/overload
- 3 phase AMF function
- Over-/under frequency
- Over-/under voltage
- Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log



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All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

### Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set-up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

#### Operation conditions

- Operation temp: -20 °C to + 70 °C
- Storage temp: -30 ℃ to + 80 ℃
- Operating humidity: 95% w/o condensation
  - Vibration : 5-25Hz, ±1.6mm 5-100Hz, a=4g
- Shocks: a= 500m/s²

#### Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
  Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs

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